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Document Number 201

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File: JPAB

Nov 24, 1992

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TITLE: BOILER TUBE FOR CITY REFUSE INCINERATOR

PUBN-DATE: November 24, 1992

INVENTOR-INFORMATION:

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APPL-NO: JP03104560

APPL-DATE: May 10, 1991

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ABSTRACT:

PURPOSE: To obtain a boiler tube for a city refuse incinerator, having excellent wear resistance and corrosion resistance by forming an alloy film made of 15-55wt.% of Cr and the balance of Ni on an outer surface of a heat transfer tube by an explosion spraying method.

CONSTITUTION: A heat exchanger 5 is formed by aligning many heat transfer tubes 9 longitudinally between a left side wall 7 and a right side wall 8 in a lengthwise direction, and soot blowers 6 are provided on a back wall 10. A metal film 12 made of 15-55wt.% of Cr and the balance wt.% of Ni is formed on an outer periphery of part of the tube 9 group oppositely to drain vapor from the blowers 6 by an explosion spraying method. As a result, an increase in oxidation of the explosion spraying method is reduced as compared with that of a flame spraying method with lapse of time. Accordingly, the explosion spraying method can form a dense film having a high adhesive strength to provide an excellent high temperature resistance.

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ALL	l15 same l11	422		<u>L17</u>
ALL	l15 and l11	1285		<u>L16</u>
ALL	corrosion resist\$4 same (chromium or Cr) same (nickel or Ni)	9627		<u>L15</u>
ALL	corrosion resist\$4 same (chromium or cr)	17843		<u>L14</u>
ALL	l11 same l12	3046		<u>L13</u>
ALL	(chromium or Cr) near5 (nickel or Ni)	91641		<u>L12</u>
ALL	(atomiz\$4 or atomis\$4 or atomization or atomisation or spray\$3)	486785		<u>L11</u>
ALL	(atomiz\$4 or atomis\$4 or atomization or atomisation or spray\$3) same (nickel or Ni) near4 (% or percent) same (chromium or Cr)near\$4 (% or percent)	0		<u>L10</u>
ALL	(atomiz\$4 or atomis\$4 or atomization o atomisation) same (nickel or Ni) near4 (% or percent) same (chromium or Cr)near\$4 (% or percent)	0		<u>L9</u>
ALL	(atomiz\$4 or atomis\$4 or atomization o atomisation) same (nickel or Ni) same (chromium or Cr)	609		<u>L8</u>
ALL	corrosion resist\$4 same high (chromium or Cr) content	131		<u>L7</u>
ALL	l4 and corrosion resist\$4	332		<u>L6</u>
ALL	l1 and corrosion resist\$4	1065		<u>L5</u>
ALL	(chromium or Cr) near3 (40% or 40 percent) same (nickel or Ni)	993		<u>L4</u>
ALL	(chromium or Cr) near4 (40% or 40 percent) same (nickel or Ni)	1189		<u>L3</u>
ALL	(chromium or Cr) same (nickel or Ni) same (40% or 40 percent)	3111		<u>L2</u>
ALL	corrosion resist\$4 same (40% or 40 percent)	1065		<u>L1</u>